IN THE CLAIMS

Please amend the claims as follows:

1.   (Currently Amended)   ~~Method~~ A method for authenticating a

first unit to a second unit, said method comprising the steps of:

a)   exchanging authentication data between said first unit and

said second unit, said authentication data being retrieved from an

5   ~~authorisation~~ authorization list comprising a list identifier~~,~~;

b)   checking the presence of the first unit on the

authorization list; and

~~b)~~c)   checking the ~~authenticity~~ validity of the ~~authorisation~~

authorization list ~~and the origin of the authentication data from a~~

10   ~~valid authorisation list~~using the list identifier received from the

first unit and a list identifier stored in the second unit.

2.   (Currently Amended)   ~~Method according to~~ The method as

claimed in claim 1, wherein authentication of said first unit is

terminated if either of said ~~step of~~ checking steps fails.

3.   (Currently Amended)   ~~Method according to~~ The method as

claimed in claim 1, wherein said first unit comprises an

application unit including an application and said second unit

comprises a security unit.

4.   (Currently Amended)   ~~Method according to~~ The method as claimed in claim 3, wherein said ~~authorisation~~ authorization list comprises a certified application list comprising information about ~~authorised~~ authorized applications.

5.   (Currently Amended)   ~~Method according to~~ The method as claimed in claim 4,

_____wherein in said step a)_, a certified public key of said application unit retrieved from said certified application list and a list identifier of said certified application list is transmitted from said application unit to said security unit, and

_____wherein in said step ~~b~~c) said certified public key of said application unit and said list identifier of said certified application list is checked by said security unit.

6.   (Currently Amended)   ~~Method according to claim~~ The method as claimed in claim 5, wherein said method further ~~comprising~~ comprises the steps of:

b1)   transmitting a certified public key of said security unit from said security unit to said application unit~~,~~; and

b2)   checking said certified public key of said security unit by said application unit against a certified security unit revocation list.

7. (Currently Amended)   ~~Method according to~~ The method as claimed in claim 6, wherein said certified public keys are checked by use of a public key of a certification unit provided by said certification unit to said security unit and said application unit.

8. (Currently Amended)   ~~Method according to~~ The method as claimed in claim 5, wherein said certified application list is provided and updated by a certification unit.

9. (Currently Amended)   ~~Method according to~~ The method as claimed in claim 1, wherein said list identifier is distributed together with data carriers or from any of said first unit, second unit or said certification unit.

10. (Currently Amended)   ~~Method~~ A method for transmitting data securely over a transmission channel from a second unit to a first unit, said method comprising the steps of:

~~a method for~~ authenticating said first unit to said second unit ~~according to~~ as claimed in claim 1~~, further comprising the steps of:~~

~~c~~d)   encrypting data to be transmitted using an encryption key by said second unit~~,~~; and

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~~de~~e)   transmitting said encryption key and the encrypted data

10   from said second unit to said first unit or determining said

encryption key by said first and said second unit.

11.   (Currently Amended)   ~~Method according to~~ The method as

claimed in claim 10, wherein said ~~authorisation~~ authorization list

is distributed together with said data to be transmitted, with data

carriers, with application units or applications.

12.   (Currently Amended)   ~~Data~~ A data transmission system for

transmitting data securely over a transmission channel comprising:

a)   a first unit for transmitting authentication data from

said first unit to ~~said~~ a second unit, said authentication data

5   being retrieved from an ~~authorisation~~ authorization list comprising

a list identifier~~,~~ ;

b)   a second unit for checking the authenticity of the

~~authorisation~~ authorization list and the origin of the

authentication data from a valid ~~authorisation~~ authorization list

10   and for transmitting said data over a transmission channel from

said second unit to said first unit.

13.   (Currently Amended)   ~~Data~~ The data transmission system

~~according to~~ as claimed in claim 12, wherein the second unit ~~is~~

~~provided~~ comprises:

means for encrypting data to be transmitted using an

5   encryption key~~,~~; and

means for transmitting said encryption key and said

encrypted data from said second unit to said first unit or for

determining said encryption key by said first and said second unit.

14.   (Currently Amended)   ~~Data~~ The data transmission system

~~according to~~ as claimed in claim 12, wherein said data transmission

system further ~~comprising~~ comprises:

a certification unit for providing a public key of said

5   certification unit for checking said authentication data and for

providing and updating said ~~authorisation~~ authorization list.

15.   (Currently Amended)   ~~Data~~ The data transmission system

~~according to~~ as claimed in claim 12, wherein said data transmission

system further ~~comprising~~ comprises:

a computer comprising a reading unit for reading a data

5   carrier storing the data to be transmitted,

wherein said first unit is part of said computer provided

for running an application, and

wherein said second unit is part of said computer

connected to or arranged in the reading unit provided for

10   decrypting and re-encrypting data read from said data carrier.

16. (Currently Amended)   ~~Data~~ A data transmission apparatus for

transmitting data securely over a transmission channel comprising:

a)   a first unit for transmitting authentication data from

said first unit to said second unit, said authentication data being

5   retrieved from an ~~authorisation~~ authorization list comprising a

list identifier~~,~~; and

b)   a second unit for checking the authenticity of the

~~authorisation~~ authorization list and the origin of the

authentication data from a valid ~~authorisation~~ authorization list,

10   for encrypting data to be transmitted using an encryption key, and

for transmitting said encryption key and said encrypted data from

said second unit to said first unit or for determining an

encryption key by said first and said second unit.